Neuroimaging Sciences Training Program at Yale
NISTP, funded by the National Institute on Drug Abuse (NIDA)
Training a New Generation of Interdisciplinary Scientists
### http://mrrc.yale.edu/education/grants/

The Neuroimaging Sciences Training Program (NISTP) trains scientists in technological aspects of data acquisition and analysis, clinical and biological fundamentals in areas of interest to each trainee as related to substance abuse and dependence, development of research proposals, and generation of documentation to navigate today's administrative requirements for imaging research.

Cross-disciplinary training to create a new generation of imaging scientists

The rapid advance in imaging technology over the last decade provides unparalleled opportunities to research the biological basis of brain function and disease. Examples of recent advances in neuroimaging technology include PET neuroreceptor imaging, magnetic resonance spectroscopic studies of neurotransmitter kinetics and fMRI mapping of brain function. Even more recently molecular imaging has been introduced to the armamentarium of researchers using imaging technology. Together, neuroimaging tools offer great promise for the expanded clinical utility of imaging in the diagnosis, treatment, and enhancement of knowledge of the pathophysiology of substance abuse disorders.

To Apply:

Go to **http://mrrc.yale.edu/education/grants/** to download the one-page application sheet and instructions. To apply, gather a summary of your research goals (up to one page), your CV, and two letters of reference, and e-mail those to graeme.mason@yale.edu.
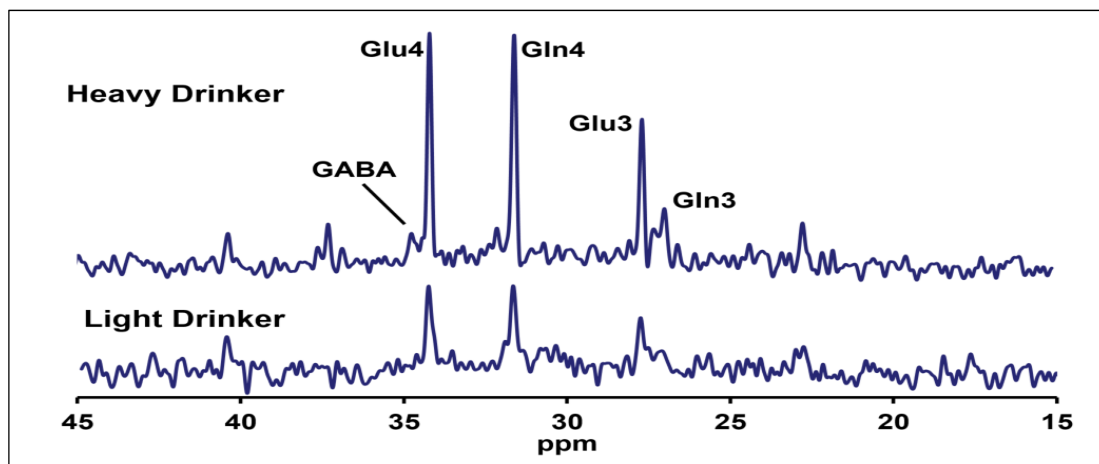
Above: MR Center staff discuss functional and diffusion imaging results.

Left: From a magnetic resonance spectrosopy study about energetic differences between heavy drinkers and light drinkers.

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Faculty List
Other faculty not on these primary lists can serve as mentors: please contact them and graeme.mason@yale.edu to discuss

Methodology Faculty	METHODOLOGY	PRIMARY & SECONDARY DEPARTMENTS
Graeme Mason, Ph.D.	MRS & MRI	Diagnostic Radiology, Psychiatry
Richard Carson, Ph.D.	PET	Diagnostic Radiology, Biomedical Engineering
Douglas Rothman, Ph.D.	MRS & MRI	Diagnostic Radiology, Biomedical Engineering
Todd Constable, Ph.D.	MRI & fMRI	Diagnostic Radiology, Biomedical Engineering
James Duncan, Ph.D.	Image Processing	Diagnostic Radiology, Biomedical Engineering
Evan Morris, Ph.D.	PET	Diagnostic Radiology, Biomedical Engineering, Psychiatry
D.S.Fahmeed Hyder, Ph.D.	MRS, MRI, and fMRI	Diagnostic Radiology, Biomedical Engineering
Robin de Graaf, Ph.D.	MRS & MRI	Diagnostic Radiology, Biomedical Engineering
Yiyun Henry Huang, Ph.D.	PET	Diagnostic Radiology

Applications Faculty	RESEARCH AREA	METHOD	DEPT
Rajita Sinha, Ph.D.	Addiction and Stress, influences of gender	MRI, fMRI, PET	Psychiatry
John H. Krystal, M.D.	Alcoholism, smoking, schizophrenia	fMRI, MRS, PET	Psychiatry
Kelly Cosgrove, Ph.D.	Nicotine addiction, influences of gender	PET	Psychiatry
Suchitra Krishnan-Sarin, Ph.D.	Substance abuse, including in adolescents	fMRI	Psychiatry
Stephanie O'Malley, Ph.D.	Nicotine addiction, alcoholism, influences of gender	MRI, MRS	Psychiatry
Godfrey Pearlson, M.D.	Alcohol, decision-making, reward system	MRI, fMRI	Psychiatry
Marc Potenza, M.D., Ph.D.	Gambling and Substance Abuse and influences of gender	fMRI, PET	Psychiatry
Gerard Sanacora, M.D., Ph.D.	Major depressive disorder	MRS, PET	Psychiatry
Steven Southwick	Post traumatic stress disorder	MRI, PET	Psychiatry